Bulletin

University of Toronto Friday April 29, 1976

No. 34 29th Year

"Update" campaign goal is \$25 million



photo by Elizabeth Spivak

Co-chairman of the "Update" fund raising campaign, St. Clair Balfour (left) and W.O. Twaits

Under the name "UPDATE", the University will undertake a five-year campaign to raise funds from the private sector, President John R. Evans announced at a press conference on April 28. Goal of the campaign is \$25 million

St. Clair Balfour, Chairman of the Board of Southam Press, and W.O. Board of Southam Press, and W.O. Twaits, former Chairman of the Board of Imperial Oil, are co-chairmen of the "Update" campaign which represents the University's first formal funding appeal to the private sector since the successful National Fund campaign in 1056. paign in 1959.

Both Balfour and Twaits are U of T graduates and have been active in University affairs, Balfour through the Southam Fellowships and alumni of Trinity College and Twaits in service on the Governing Dr. Evans stressed that the funding generated via the "Update" campaign will be used not for additional growth but for improving and in a sense "retooling" existing University facili-ties. The University has a large physical plant, of which many areas are obsolete in terms of modern requirements for effective teach-ing and research, he said. Almost 25 percent of the buildings on the St. George campus are more than 40 years old and have never been renovated.

Major goals of the "Update" campaign are:

1) To provide improved accomnodation for essential teaching and research programs now housed in obsolete and rented quarters, which would allow sizable economies in operating ex-

2) To stimulate quality in all teaching and research by provid-ing up-to-date equipment and facilities

3) To provide funds for the initiation of new programs in response to changing needs and opportunities.

4) To develop the campus as an aesthetically agreeable environ-ment in the downtown metropoli-

The co-chairmen said that the The co-chairmen said that the "Update" campaign, which is to begin immediately, is based on 79 priority needs for the University's three campuses: St. George, Erindale and Scarborough. Although "Update" is being launched in conjunction with plans for the celebration of the University's Sesquicentennial in 1977, the campaign will be an on-going activity that is not confined to one brief period, or even to one calendar year.

As it approaches its 150th birthday, the co-chairmen said, the University finds itself in a position where current financial limitations make it necessary to seek support from other than government sources and student fees.

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GOVERNING COUNCIL

1977-78 operating deficit possible

The Governing Council yesterday approved budget guidelines calling for the continuation into 1977-78 of the base budgets recommended for divisions for 1976-77, plus an adjustment for salary increases. Divisions will be

permit redevelopment of other old and inefficient buildings in the

old and inefficient buildings in the south campus area, including the Sir Sanford Fleming Building, the old Mining Building and the FitzGerald Hygiene building.

The goal to achieve these "Update" objectives is \$10,775,000.

Federated Colleges' Renovations.

The new relationship embodied in the Memorandum of Under-

standing between the University and its Federated Colleges — St.

Michael's, Trinity and Victoria will make it possible for students in the heavily-populated academic areas in Arts and Science to receive instruction in their own College. required to absorb increases in costs of non-salary items. A plan for recovery of merit pay and progress-through-the-ranks is to be implemented. Budget changes will be made in special

cases and only upon review by the Budget Committee. Council ag-reed that the extension of the base budgets will be complemented by more intensive planning activity and that the role of the Budget Committee and the Planning and Resources Subcommittees would be re-examined in light of revised budgeting approach.

The Governing Council also recognized that approval of the new budget plan involves the possibility of the University incur-

ring an operating deficit in 1977-78. Meeting at Erindale College, the Council moved briskly through a lengthy agenda which included several additional items of a financial nature. Among those motions gaining Council's approv-

- The University will continued — The University will continued to pay 68 percent of the total new OHIP premiums at an increased annual cost to the University, including those unionized staff covered by special contract arrangements. Earlier this month, the provincial government in the provincial government in-creased the annual OHIP premium by \$60 for single persons and by

by sour for single persons and by \$120 for married persons.

— Parking rates will increase to \$234 from \$216 a year for a reserved space and to \$117 annually from \$108 for an unreserved sticker;

daily cash rates will increase to a maximum charge of \$1.65, and to \$1.10 for students; the evening flat rate for parking after 7 p.m. on the front campus will be \$1.25 and \$1 for evening parking on other campus lots

— Summer residence rates at New College, University College and Devonshire House will in-crease in a range from 10 to 16 percent. A special rate of \$7 perday or \$26—\$27 weekly (dependent on residence) will be available to primary and secondary school students on official school educational tours.

Students enrolled in the Bachelor of Commerce program, which requires the successful which requires the successful completion of 23 courses prior to graduation, will be permitted in their fourth year to take three courses at no charge in order to equalize their total fee-per-course payment with that of other students who require only 20 courses the payment with that of their students who require only 20 courses

to obtain a four-year degree.

— The fee for the Summer Russian Workshop will be increased to \$230 from \$200. Council was informed that even at the increased level the Workshop will operate at a deficit and that its fees are still significantly less than those for comparable programs at other universities.

- Small increases in student fees were granted to the Arts and Science Union, the Erindale Col-lege Student Union, the Erdinale College Athletic and Recreation

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\$15 million earmarked for renovations

Major capital projects represent almost \$15 million of the \$25 million goal of the "Update" campaign, and should result in a major renewal of many celebrated but antiquated buildings on the St. George campus.

South Campus Redevelopment.

University academic planning gives a priority to a co-ordinated and multi-discipline approach to the theme "Man and Environment" with emphasis on the study of the earth's physical resources. The Faculty of Forestry, Department of Geology, Institute for Environmental Studies, Department of Geography, Division of Geological Engineering and Applied Earth Science, Centre of Libba and Regional Presidents Urban and Regional Planning, and the Environmental Engineering section of the Department of Civil Engineering will be involved.

It is proposed to house these disciplines in a redeveloped South-west campus. This project will

More Canadian content!

Ontario universities must "significantly improve" their performance in hiring Canadian faculty members, Dr. Harry Parrott, Minister of Colleges and Universities, stated in the Legislature on April 26.
In 1975-76, approximately 71.7 percent of faculty members were

Canadian citizens, compared to 66.5 percent in 1974-75. U of T is just above the provincial average, with 72.8 percent.

Do. Parrots and the five percent improvement is due almost entirely to foreign professors taking our Canadian citizens, he noted that in 193-76, about 63-5 percent of newly-appointed faculty were Canadian citizens, "thich is about the same as it has been for the previous two years." The Uof Tigueris 64.9 percent.

instruction in their own College. New and contemporary academic programs are being developed within each College which will reflect and strengthen their great traditions. College students are to be taught on College premises and, whenever possible, by staff located in the College's offices.

To do this, these three colleges must undertake modest renovamust undertake modest renovations to provide for additional

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FORUM

Quality of education may be declining

To the Editor:

It has been asserted that the proliferation of A grades at the University of Toronto is lowering its standard of education. The standard of "marking" may be falling but, more importantly, so may be the "quality of education."

The tutorial system as it now operates in several Arts courses is totally unsatisfactory. Students are led to believe that attendance at these small discussion groups will somehow contribute to their comprehension of the course material. But frequently discussion is fruitless and assigned readings only seem to provide the students with reams of information which will not be combined in essays and examinations. Thus, these readings have no practical use. The problem is compounded if there are no marks assigned for tutorial work because, as a result, students have little incentive to attend the

These discussions should be come a vital element within the present educational system, but that goal cannot be achieved unless some new methods of incorporating their use into the course material be found.

Let us address ourselves to the present problems concerning the quality of undergraduate educa-tion at the University of Toronto there must be a better way

> Mike Alexander Political Science 2 New College

University to be closed July 2

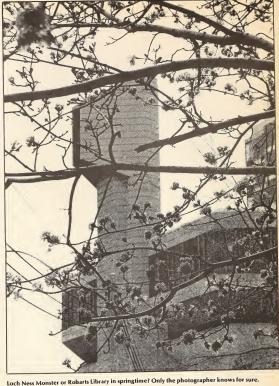
In view of the fact that Dominion Day this year falls on a Thursday, the President has declared that the day following, i.e., Friday, July 2, 1976, will be a holiday as well. Therefore, the University offices will 1976, will be a holiday as well. I neretore, the University outlies will be closed from the end of the working day on Wednesday, June 30, until commencement of work on Monday, July 5, 1976, and wherever possible, consistent with the maintenance of essential services, staff will be given this time off.

services, staft will be given this time off.
For eligible staff the summer hours program will commence on
Monday, July 5 and regular hours will resume on Tuesday,
September 7, following the Labour Day holiday. Normal office
hours will befrom 45 a.m. untilul-30 p.m. Monday to Friday or 33¼
hours where a flexible hours program has been adopted. Civic
Holidays is Monday. August 9. Holidays is Monday, August 2.

This notice is not to be construed as establishing service and

operating schedules in such divisions as the Main Library, Computer Centre, Physical Plant and the University of Toronto Press where announcements will be made separately.

Director of Personnel



BRIEFLY

Robert Duncan gave a highly successful reading of his poetry before an attentive audience of about 50 persons on Wednesday, April 21, at Erindale College. Duncan, who was one of the key figures in the "San Francisco Duncan, who was one of the key figures in the "San Francisco Renaissance" of the mid-fifties, presented a cross-section of his works. These included "Witnes-ses", written in the early 20s, several sonnets, the rhythmic "Passages" and pieces from a work in progress. An open seminar followed the reading, Duncan's first appearance at the University.

"The Trip of a Lifetime" is the title of the third annual Meds open house to be held Saturday, May 1. The trip, organized by students, "will take visitors on the human journey from con-ception to old age" and will be conducted from 9 a.m. to 9 p.m. in the Medical Sciences Building.

The federal government has issued a free booklet outlining 100

issued a free booklet outlining 100 ways to save energy and money in the home or office.

Subtitled "Tips on how you can stretch Canada's energy resources and put money in your pocket", it can be obtained by writing 100 Ways, Box 3500, Station C, Ottawa, FTM CG1. K1Y 4G1

The York University Faculty Association became the fourth certified faculty association in

Ontario on April 12 when it was granted an interim certificate by the Ontario Labour Relations Board.

The association will consider ratification of a draft contract on May 5 and negotiations with the university's bargaining team are expected to commence shortly

The Canada Council has awarded a five-year Major Editorial Grant of up to \$430,200 to the U of T Press in support of the Collected Works of Erasmus.

The Council has indicated its intention to consider additional funding of the CWE in the amount of \$1,600,000 for the further period of approximately twenty years that will be required to complete the project.

The Remeny Award compet-ition, for violin students in the Faculty of Music, will be held on Saturday, May 8 at 8.15 p.m. in the Walter Hall, Edward Johnson Build-

The annual competition, started over 50 years ago in Budapest, was revived last year at U of T. This year again the House of Remeny, a distinguished Hungarian musical firm now located in Toronto, will contribute a newly built violin to a student at the Faculty. If the winner is already in possession of a good instrument, he will be given professional engagements including a concert at the Art Callery of Ontario. The violin will then go to the contestant who wins second

Alumni Association Meeting

The Annual Meeting of the University of Toronto Alumni Association will be held in Lecture Room 3, New Academic Building, Victoria College at 12 noon on Saturday, May 8, 1976.

Building, victoria College at 12 noon on Saturday, May 8, 19/6.
Agenda — Secretary's Statemente: Notice of Meeting, Minutes of
Annual Meeting, May 3, 1975, Committee Reports, President's
Report, Treasurer's Report, Nomination of Auditors, Report
Branches, Amendments to Constitution, Report of Nominating
Committee, Election of Officers, Ratification of Committee
Chairmen for 1976-77, Remarks by Director of Alumni Affairs,
Other Business, Motion of Adjournment.

All U of T alumni are welcome. Those planning to attend are asked to notify Alumni House by April 30 (978-8990)

Douglas Appleton

Accidents play no favourites

This somewhat gloomy report has been issued by James H. Murphy, Chief Safety Officer:

"The record for the first three months of 1976 is so poor it is difficult to know what to say. Even the most safety conscious people in the University are sustaining painful accidents. We can look back and blame to a certain extent a very difficult winter. There were however, a good number of serious accidents that were not related to weather conditions, but rather to poor judgement by individuals. individuals.

'We have received excellent feed-back in relation to our recent communique on 'Seat belts'. One member of our communique communique on 'Seat belts'. One member of our communique called to say both his son and daughter rowed their lives sow when shoulder type easts belts. Another informed us of a person who pinned a strip of material diagonally across the shoulder os invalate as a seat belt, which indicates in a way the safety officer's difficulty of

convincing people of potential danger.

"We are planning in the near future to run lunch-hour film

"We are planning in the near future to run lunch-hour lilm programs at both the John Robarts Library and the Medical Sciences Building. Free coffee and doughnuts will be provided. Bring your own sandwiches. We know you will find these movies both entertaining and informative, so please plan to attend. "We received good response to last month's request for participants in our first Aid Training Program. One course will be held for the staff of Sigmund Samuel Library commencing June, 1976. We are hopeful of a conserve hairs held in the Medical 1976. We are hopeful of another being held in the Medical Sciences Building in the same month. If you would like further information on the St. John Ambulance First Aid Courses, please call Mrs. Joan Scotchmer at 978-8787."



UNIVERSITY of TORONTO Bulletin

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Governing Council

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Association, the Scarborough Colege Athletic Association and the University College Literary and Athletic Society.

Governing Council also en-dorsed the Report of the Task Force on Staff Supported on Research Grants. The Report's basic principle is that the approximately 1,000 persons in the cate-gory must be treated as regular University employees for such essential purposes as salary levels, grievance procedures, maternity leave, disability insurance and termination procedures.

\$1.5 million already received

St. Clair Balfour, co-chairman of the "Update" campaign briefed Council members on the goal and organization of the University's new on-going fund raising campaign. He announced that pledges totalling \$1.5 million have already been received.

President Evans announced several senior academic and admini-strative appointments, including that of Prof. James Ham as Dean, School of Graduate Studies. Vice-Provost Robin Ross and Dean Desmond Morton are to be Vice-Principals of Erindale College, and four additional University Profes sors have been named.

The Council discussed at length the University's official comments regarding long-range planning and capital assistance, which are to be presented to the Ontario Council on University Affairs on

The University will likely endorse "a mildly expansionist policy" for undergraduate

enrolment, Dr. Evans said. An increase in first-year enrolment by increase in first-year enrolment by about 600–850, particularly in the suburban colleges, would be desirable provided that the provincial government supplies the capital resources necessary to complete the Physical Plant according to the original plans. Each of Sephorough and Frindale Each of Scarborough and Erindale thus would have adequate space for about 5,000 students.

The University will also stress to OCUA the need for a cyclical renewal formula to fund renewal formula to fund renovation, alteration and replacement of capital equip-ment, and to fund the replacement of furniture and operating equipment.

Debate on Hiring Procedures Several members sought clarification of the statement of U of T appointments policy announced in last week's Bulletin. COU has pledged to the provincial government that new procedures will ensure oppor-tunities for qualified Canadians to compete for appointments.

To compete for appointments.

Dr. Evans noted that the Minister of Colleges and Universities, in a statement made earlier this week, appeared to make a distinction between Canadian citizens and landed immigrant. "The University of Toronto does not intend to make this distinction," the President

this distinction," the President stated. If the Government wishes to enforce the distinction, this should be done by provincial legislation, he added.

The U of T statement of appointments procedure was referred for clarification to the Academic Affairs committee, which is to meet on May 6.

High prestige jobs hard to get, 1972 grads say

Arts and Science graduates in the early 1970s encountered a less favourable labour market and had more difficulty in obtaining desir-able jobs than did graduates of previous years, according to a research study commissioned by the Ministry of Colleges and Universities. Approximately 2,000 B.A. and B.Sc. students from the

1972 graduating class of Ontario universities were interviewed as part of the study.

The 1972 graduates reported having greater difficulty in entering "high prestige" occupations and were less satisfied with their work than graduates of previous

Erindale Vice-Principals named

Dr. E.A. Robinson, Principal of Erindale College, has announced the appoint-ment of Prof. Desmond Morton as Vice-Principal (Academic) and of Robin Ross, Vice-Principal (Administration) at Erin-dale. Both appointments are for two-year terms, effective July, 1976. No increase in staff is involved since Prof. Morton will continue to act as Associate Dean of Humanities and Mr. Ross, who will remain Vice-Provost of the University, has been acting Vice-Principal of Erindale since 1975.

Prof. Morton is a graduate of the College Prof. Mortonisa graduate of the College Militaire Royal de St-Jean, the Royal Military College of Canada, and Oxford University. He received his M.A. from Oxford in 1966 and a Ph.D. from the London School of Economics, University of London, in 1968.



Desmond Morton

After ten years in the Canadian army. Prof. Morton retired with the rank of captain in 1964 to become Assistant repriate In 1994 to become Assistant Provincial Secretary of the New Democratic Party of Ontario, and joined the Department of History at the University of Ottawa in 1968. In 1969, he was appointed to the faculty of Erindale College, and in 1975 he was appointed Associate Dean of Humanities.

Humanities.
His special fields of interest are
Canadian military, political and labour
history. His books include, "Ministers and
Generals: Politics and the Canadian
Militia: 1867—1904; Mayor Howland: The

Citizens's Candidate and NDP: The Dream

Among Prof. Morton's awards are a number of Canada Council research grants. He is a contributor to Canadian newspapers and periodicals and gives a regular news commentary on radiostation CHIC in Brampton.



Robin Ross is a graduate of St. Andrew's University, Scotland. He was awarded a post-graduate fellowship to Oxford but the War interrupted his studies and he joined the British army. Service in the Indian Civil Service, the Commonwealth Relations Office and the British High Commission in Ottawa preceded his appointment to the University in 1958. Since then, he has served as Registrar of the University and Secretary of the Senate, and for five years as Vice-President. He has held various positions in provincial and national educational committees and organizations, including membership of the board of directors of the Association of Universities and Colleges of Canada. In addition, since 1973 Mr. Ross has been editor of the Canadian Journal of Higher Mr. Ross has had a continuing interest in

the development of Frindale College since he was a member of the committee formed in the early 1960s to plan the

Dainty, Hare, Rapson, Siminovitch are honoured

Four distinguished scientists botanist, climatologist, chemical engineer and a geneticist — have been named University Professors, President John Evans announced at yesterday's meeting of the

overning Council.

They are: Jack Dainty, Chairman, Department of Botany; F. Kenneth Hare, Director, Institute for Environmental Studies: Howard Rapson, Professor of Chemical Engineering and Dr. Louis Siminovitch, Chairman, Department of Genetics and Geneticist-in-Chief, Hospital for Sick Children.

Jack Dainty, 57, came to the University as Chairman of Botany in 1971. Previously, he had been professor of botany at the Univer-sity of California at Los Angeles.

Prof. Dainty was graduated from the University of Cambridge in 1940 with First Class Honours in Mathematics and Physics. He obtained an M.A. from Cambridge in 1953, and in 1958 gained a D.Sc. in 1953, and in 1958 gained a D.Sc. from the University of Edinburgh. His academic awards include the Stokes' Medal at Cambridge. A Fellow of the Royal Society of Edinburgh, he has also been a Royal Society Commonwealth Fel-low to Australia and Visiting Nuffield Professor to Canada.

Nuffield Professor to Canada. From 1940—45 he was a research physicist at Cambridge and from 1946—49 served in Canada as a researcher with Atomic Energy of Canada at Chalk River. He then returned to the United Kingdom and was for 15 years at the

University of Edinburgh as lec-turer, senior lecturer, reader and then Head of the Department of Biophysics. He moved to the University of East Anglia, Norwich, in 1963 and to UCLA in 1969.

F. Kenneth Hare, 57, has held numerous academic and administrative positions in Canada and in his native England, including the presidency of the University of British Columbia in 1968—69.

Dr. Hare, a professor of both geography and physics, earned degrees on two continents: a B.Sc. in geography at the University of London (1939) and later a Ph.D. in climatology at the Institut de geographie, Universite de Montgeographie, Université de Mont-real (1950). He has received honorary degrees from Queen's, Western Ontario, McGill, and the University of Adelaide, where in the summer of 1974 he was Centenary Visiting Professor.

Following wartime service in the Following wartime service in the Royal Air Force as a meteorologist, he joined the staff at McGill University, where he served as chairman of the department of geography (1950—62) and then as dean of Arts and Science (1962— 64). He returned to the University of London for four years before serving as president of UBC.

Dr. Hare is a Fellow of the Royal

Society of Canada as well as of the American Meteorological Society; he has been president of the Canadian Association of Geogra-phers and of the Royal Meteorolo-gical Society, and honorary presican Geographers. In 1973 he was awarded the Patterson Medal by the Canadian Meteorological Service and in 1974 the Massey Medal by the Royal Canadian Geograph-

He joined U of T in 1969 and became Director of the Institute for Environmental Studies in 1974. He is at present chairman, Advisory Committee on Canadian Demon stration Projects, United Nations Conference on Human Settle-ments, to be held later this year.

Howard Rapson, 63, was born in Toronto and obtained both his undergraduate and graduate education from the Department of Chemical Engineering. He has been a professor there since 1953.

He is recognized as one of the world's leading authorities on chlorine dioxide bleaching in the pulp and paper industry, and his numerous inventions have earned more than 33 patents in 43 countries. Dr. Rapson is a Fellow of the Royal Society of Canada and in 1967 was awarded a Centennial

Among the many awards for his contributions to industrial technology are the R.S. Jane Memorial Award of the Chemical Institute of Canada (1965), the prestigious McCharles Prize (1966) and the 1967 Pulp Manufacture Division award of the Technical Association of the Pulp and Paper Industry.

At the University, Prof. Rapson

has been active in the faculty association since 1953, and his many committee memberships have included the President's Council, the Central Budget Committee (1967—70), chairman of the faculty association's salary committee (1964—66), and the Board of Governors of the Ontario Institute for Studies in Education (1971-

In October 1975, he announced successful completion of a break-through in water pollution control for the pulp and paper industry: a system which will eliminate the pollution of water by bleached kraft pulp mills. 1976 has been a year of awards for Dr. Rapson; in addition to the University Profes-sorship, he has received the TAPPI Gold Medal and is soon to receive an honorary degree from the University of Waterloo.

Louis Siminovitch, who cele-brates his 56th birthday tomorrow, is a prolific researcher and author in addition to his teaching and administrative duties in the Department of Genetics.

Dr. Siminovitch earned a Ph.D. from McGill University in his native Montreal in 1944 and in 1965 was elected a Fellow of the Royal Society of Canada. From 1944—47 he worked with the National Research Council and then moved to the Institut Pasteur in Paris. He returned to Canada in 1953 as a fellow of the National Cancer Institute in the Connaught Medi-cal Research Laboratories. He was appointed Associate Professor in the Department of Microbiology in 1956, and in 1958 became in addition an Associate Professor of Medical Biophysics; in 1960 he was made Professor in both departments. In 1967, Dr. Siminovitch was named director of the Cell Biology Group, a new group-ing of research units within the Faculty of Medicine. He is also an Associate Professor in the Department of Paediatrics and became Chairman of the Department of Medical Genetics in 1974.

He has served as a member of the University's research board and on the Research Advisory Group, National Cancer Institute of Can-

Since 1960, Dr. Siminovitch has edited the journal Virology, and he is also a member of the editorial board of Cell, Somatic Cell Genetics, and Journal of Cytogenetics and Cell Genetics.

Among his many responsibilities outside the University, he is chairman of the Province of Ontario Task Force on Genetic Services and a member of the Killam Selection Committee of the Canada Council.

Canada Council.
The four appointments bring the total of University Professors to 12. Previously named are Claude Bissell (English), Donald Creighton (History), Northrop Frye (English), D.V. LePan (English), C.B. Macpherson (Political Economy), Marshall McLuhan (English), John Polanyi (Chemistry) and C.P. Stacey (History).

Up from Coboconk: the evolution of James Ham

by Sheila Robinson Fallis
The academic career of James Ham, recently
appointed Dean of the School of Graduate Studies,
reads like the archetypal Canadian tale of the country boy made good — from a one-room school house Coboconk, Ontario to the highest marks ever awarded to an engineering graduate at U of T, followed by a doctorate at MIT and several prestigious appoint-

"Even two months ago I would have said it unlikely that I should undertake a job such as this one," says Prof. Ham of his latest appointment. However, one Prof. Ham of his latest appointment. However, one might be forgiven for believing it was just a matter of time before he would tackle another academic administrative post. He has already heldseveral during his 23-year care rat U of 1; Head of the Department of Electrical Engineering 1964-66, Dean of the Faculty of Applied Science and Engineering, 1966-73, and Chairman of the Research Board since 1974. His appointment as Dean of SCS, which was announced at Thursday's meeting of the Governing Council, is for five years. He succeeds the present dean, Edward Safarian.

Safarian. Although he began his academic work in the field of automatic control systems in industry, Prof. Ham has latterly become interested in technology as a whole, and how it affects and shapes people. While he serves and now It allects and snaps, popular was been he hopes to contribute to a new program on the social impact of technology being initiated by the Faculty of Applied Science and Engineering, and to work on technical problems of measuring conditions in the environment of workplaces in industry.

in the environment of workplaces in industry. Prof. Ham recognizes the continued existence of several major problems related to graduate studies. One problem involves the attitude towards graduate studies within the University itself. As an academic with a strong interest in both teaching and research, he brings a well-defined point of view to the SGS. "I'm deeply committed to the belief that teaching is vivified by research," he says. "The argument over the quality of teaching within the university has tended to reflect lesses significance on research."

ot teaching within the university has tended to reflect a lesses significance on research."

Another continuing problem for the graduate school is the whole question of being part of the Ontario system. "In a way we are overpopulated with universities in Ontario, and the problem of (limited) resources impels us to be increasingly aware of our neighbours." As he sees it, the development of graduate studies, in concert with other Ontario



Prof. Ham becomes SGS Dean in July

graduate schools, will continue to raise difficult questions of just how free each can be to "do one's own

A current issue which interests the new Dean is the A current issue which interests the new Dean is the context within which the graduate student pursues his work. "The quality of a graduate school is based notion on academic excellence, but on the collegial notion of each discipline. The notion that universities are in existence to shape people into preconceived slots in the structure of society is anathema to me because the usefulness of the university deriver from its ability to educate people who can wrestle with the conditions of our time, and who can perceive and assist

whatever his commitment to reaffirming the broadest purposes of graduate studies, Prof. Ham is broadest purposes of gadoute studies, "no. raam's neither unaware of nor unsympathetic towards the recent struggles of the GAA to achieve status as a bargaining unit. "When it all began I thought" Oh my God," but as a former Faculty dean I realized there were inequities within our own community," he says

And he readily admits, "If I were a graduate student I'd be right in there". But while he grants that the GAA be right in there". But while he grants that the GAA union has attempted to wrestle with some existing inequities, syndicalism within the University separates from the essence of the institution". He sess the unionization of the GAA as just one example of this prowing trend within the university, and one that is being fired by financial problems. Between now and the time Prof. Ham begins his tenure as Dean he will be completing his chairmanship the completing his chairmanship.

tenure as Dean he will be completing his chairmanship of an Ontario Royal Commission on the health and safety of working conditions in Ontario mines on which he has been working over the past year-and-ahalf. The Report is concerned in particular with what the members of the commission have learned about the conditions in which uranium miners work. According to Prof. Ham the report will try to "impress upon government that the issue of safety and the environment in the mines is indicative of a wider social problem." He adds: "where technology impinges on people we have to be more open and frank. There just hasn't been enough functional concern for the worker."

Prof. Ham has been particularly concerned by the problem of lung cancer occurances among miners

Prof. Ham has been particularly concerned by the problem of lung cancer occurances among miners who dig the uranium for use in nuclear reactors. We are very careful about the people who work on the reactors and notso careful about those who work in the mines." He feels that in the past the public and government have tended to react to the question of sifety in the working environment only in crisis government nave tended to react to the question of safety in the working environment only in crisis situations. As a teacher of engineering students, he would like to see a more explicit concern evinced about the possibilities of the adverse influence of a

about the possibilities of the adverse influence of a technology on the people who will use it. "If don't believe there is enough concern in the minds of industrial designers about the peoplewho are going to working in the environment we are creating." Prof. Ham has long had an interest in the effects of technology in shaping people's lives. His work on the commission has focused on the individual confrontation between man and his technology, But his interest in the question goes far beyond this. Two years ago he taught a seminar called "The Ivolution of Technology" which explored the historical roots of the changes of earle in the uses of energy. He was also one of the group which sought the initiation of the Institute for the Philosophy of the History of Science and Technology, and he remains an affiliate of that Institute.

voracious intestinal worms Those writhing,

by Robbie Salter

Over 98 percent of all Canadians have a parasitic infection at some time during their lives. And, though approximately 70 percent of the population are presently infected or have dormant, encapsulated larvae or adult parasites, we are much better off than the many developing countries where a similarly high percentage are affected permanently.

Many parasitic infections in man are "in error". Normally, the mosquito's inten-tions are to bear encephalitis from one horse to another, but if man happens to be in the way, he becomes the intermediate innocent host.

Dr. David Mettrick, Professor and Dr. David Mettrick, Professor and Chairman of the Department of Zoology, is studying the effects of parasitic infections on feeding and on normal digestive processes, and has shown that up digestive processes, and has shown that up to 15 percent of an animal's total dietary intake may go to support the growth of its parasitic burden. "In Africa and in India, where children are often on the verge of starvation, this nutritional loss can mean the difference between life and death," says Prof. Mettrick. "It's been calculated the roundworm/ Ascaris lumbiocoides, could be eliminated from India, the country's present food production would not only be sufficient to provide for all its present population, but there would be some left over for export." Prof. Mettrick, who worked in Africa

and the West Indies for 10 years, found in his early studies that intestinal worms migrate through the intestine every 24 hours — on a cycle related to the feeding cycle of the host. The migration explains why, in countries like India where religious fasting is practised, there is a marked increase in the incidence of intestinal blockage associated with fasting "all the worms congregate in the duodenum, where the stomach joins the small bowel, waiting and writhing for

More recently, Prof. Mettrick and his research group have shown how parasites change the intestinal chemistry, thereby markedly affecting digestion and absorp tion by the gut. The key to these changes is the very low acidity promoted by the intestinal parasites in the gut. This low acidity, while inhibiting digestion as well as nutrient and water absorption by the intestine, enhances absorption by the parasites. "It's an interesting example," comments Prof. Mettrick, "of how an animal, in this case a parasitic worm, can become highly adapted to its environment, thus increasing its chances of

Prof. Mettrick and his collaborators have recently solved the mystery of the parasites' abilities to adapt to an environment that would seem to put them at a disadvantage, since the gut is essentially without oxygen. The explanation lies in



Prof. David Mettrick

the fact that "after a meal, the carbon dioxide tension in the small bowel increases enormously. The accumulation

influences the parasite's metabolism to adjust to a lack of oxygen.

This work on understanding the effect of intestinal parasites on gastrointestinal function has now reached the stage of clinical application and resulted in an exchange of staff between the University exchange of staff between the University of Toronto and the Hospital del Nino IMAN in Mexico. The incidence of human parasitic infections, particularly in children, is considerably higher in Mexico than in Canada. While it is usually simple to eliminate intestinal parasites once they have been diagnosed, the difficulty lies in the suidence and extreme of parasitie.

have been diagnosed, the difficulty lies in the widespread existence of parasitic infections whose symptoms are not yet manifest — particularly in rural areas. The simple methods now known to control the hyper-acidity associated with intestinal parasitic infections offer the best hope of containing the infections within the geographic area where they most freemently care. frequently occur.

ofessor Mettrick's research is currently supported by the National Research Council; additional support has come from the Medical Research Council and the Atkinson and Wellcome Foundations. Prof. Mettrick is currently president of the Biological Council of Canada; chairman of the Animal Biology Committee of NRC; chairman of the Canadian Council on Animal Care; a member of the Board of the Metro Zoological Society; and a member of the Council of the Canadian Society of Zoologists.

37 administrative staff have consulted Ombudsman since fall appointment

In his first report to the University's Governing Council this week, Ombudsman Eric McKee indicated that 127 people have approached him for help since the position was established last October 1. The majority of these have been undergraduates (45) and administrative staff members (37). As well there have been 24 queries from graduate students, eight from faculty members, and 13 from miscellaneous campus groups, organizations and alumni.

McKee stated that his most

frustrating problem to date has been the lack of a suitable office location. Last fall he expressed the desire to find a centrally located, relatively neutral, secure and accessible office, but the only available space was in the International Student Centre, and later in Simcoe Hall. The permanent location will be at 16 Hart House Circle, which is now undergoing renova-tion, and the Ombudsman will move there early in the summer. Students from Erindale and Scarborough can make appointments to see him on their own campuses.

McKee also pointed out that while the Ombudsman is slowly becoming known around the University, the student constitu-ency is difficult to reach. Those

students who have approached him nearly all wanted assistance on academic matters — degree requirements, grades and grading procedures, availability of courses, examinations and other evalua-tion procedures, transcripts, quality of instruction and admission to graduate programs. The most widely publicized case dealt with Henry Fong, the fourth-year medi-cal student whose appeal against expulsion was recently turned down. The Ombudsman, after examining the case, concurred. Requests from administrative

staff have mostly concerned the area of employer-employee relations — performance appraisals, position classifications, salary matresultances in cassifications, salary mat-ters, terminations, vacation pay regulations, maternity leave pol-icy, promotion practices and lab-our relations.

STAFF NOTES

Erindale

Dr. A. J. POE gave seminars on "The strength of Metal-Metal Bonds in Metal Carbonyls" at the E.T.H., Zurich, and the University of Wurzburg, West Germany, last Wurzburg, West Germany, last December. He also visited Prof. H. Vahrenhamp at the University of Freiburg for a week in connection with their collaborative research program on this topic sponsored by

Prof. Scott Greer of the Depart-ment of Sociology, University of Wisconsin, visited Erindale during February. The main purpose of his visit was to examine the question, "Is community possible in modern ur-ban society?" in the meeting series ban society?" in the meeting series
"Mississauga 1999." Prof. Greer also gave seminars at Erindale and on the St. George campus.

Prof. F. JEROME MELBYE gave an invited talk on "Problems of Palaeodemographic Analysis" to the Department of Near Eastern Studies of the ROM in January. Dean DESMOND MORTON

addressed the North-Central convention of the Alberta Teachers' Association in Edmonton on "Louis Riel: The Myth and the Reality". He was at Carleton University to lecture on "Socialism vs. the Welfare State" in a series entitled, "The Stormy Seventies" and while there spoke on the French network of the CBC and gave an illustrated lecture on Canadian trade union history at the Public Service Alliance. Follow ing his trip to Ottawa, he represented the College at the Joanna Goodman Lectures at the University of

Western Ontario. The lectures were given in memory of the daughter of Edwin A. Goodman, Q.C., a former visiting lecturer at Erindale

Prof. WILLIAM HURLEY and graduate student Gary Crawford, now studying at the University of North Carolina, reported on the analysis of findings of the 1974 Hamanasuno Project at the 28th annual meeting of the Association of Asian Studies. The project involved U of T, the ROM and the University of North Carolina. Prof. Hurley said of the project, "These findings change our whole perspective on the lifestyle of the early Japanese people."

Prof. D. W. LAMBDEN acted as chairman for a panel of two lawyers Ontario Land Surveyors on the laws of contract and negligence at the association's 84th annual meeting. At the awards luncheon meeting, honorary membership was bestowed on Dr. J. TUZO WILSON and Prof. GORDON GRACIE. This is the highest honour the association grants to those who are not Ontario Land Surveyors and is awarded for eminence, knowledge and contribution to the profession.

> Institute for Aerospace Studies

Prof. I.I. GLASS gave a lecture on "Aerospace in the Next Century"

to the Zonta Club of Toronto in January to commemorate Amelia



Dr. Roy Shephard of the Department of Preventive Medicine and Biostatistics was invited to Japan as a visiting professor in December under the joint auspices of Tsukuba University, the Japanese Ministry of Life Planning and the Nippon Turtles Association. Lectures he gave of Life Planning and the Nippon Turtles Association. Lectures he gave included "Fliness of the Circumpolar peoples", "A longitudinal design for the steady of activity and health in children" and "History of Physical Education in Canada" at Tsukuba University; "Oxygen Conductacion in Canada" at Tsukuba University; "Oxygen Conductaced pession and the Conductace of the Con

Association. He also visited laboratory facilities in Tokyo, Nagoya, Kyotoa, Jungtendo and Tsukuba.

During March, Prof. Shepard attended the 3rd Canadian Symposium on Child Growth and Development held in London and presented, with Dr. H. Lavallee, two papers: "Effects of physical activity and season upon the working capacity of school children" and "Comparaison staturo-ponderale des enfants Canadiens." Following the symposium in London, he served as guest professor to a colloquium organized by the University of Waterloo and spoke on Ciberton and Canadian influence of activity environment and season on the growth of working capacity" at the annual meeting of the Clinical Research Society held

in Toronto.

During April, Dr. Shephard was visiting lecturer at the University of Manitoba Symposium on "The Scientific basis of medical practice", presenting papers on "What is conditioning" and the "The safety of presenting papers on what is containfuling and the The Sately of exercise." He also participated, with Drs. F. Silverman and L. Folinsbee, in a poster session entitled "Modification of ozone responses by ventilation" at the meeting of the American Physiological Society held in Anaheim.

Prof Kurt Levy AATSP chairman

Prof. Kurt Levy has been appointed general chairman of the 1979 annual meeting of the American Association of teachers of Spanish and Portuguese in Toronto. This will be the first AATSP annual meeting to be held in Canada.



Medicine

Dr. S.S. DESSER presented a paper entitled "The role of *Dient* amoeba fragilis in Idiopathic Intestinal Disorders: A Personal Case Report" at the Joint Meeting of Diseases in Toronto, Nov. 28.

Prof. MYRON J. GORDON presented his presidential address Portfolio Theory of the Social Dis-count Rate and the Public Debt" to the thirty-fourth annual meeting of the American Finance Association held in Dallas in December.

F J Keenan reviews tropical hardwoods use

Prof. F.J. Keenan of the Faculty of Forestry and Landscape Architecture spent three weeks from Nov. 15 to Dec. 5 in the Andean Pact countries of South America. He was conducting a review of the working plans and progress to date of a project to improve the utilization of tropical hardwoods, particularly in construction. The project is supported by the International Development Research Centre in Ottawa. Prof. Keenan visited forestry schools and forest products laboratories in Peru, Ecuador, Colombia and Venezuela. The philosophy behind this, and other IDRC projects, is explained by Prof. Keenan with the analogy that "you can give aman afish and he will have a meal, but if you teach him how to fish he will have several meals."

The forest products project in the Andean Pact countries is directed towards the best possible use of what is now an under-utilized resource. In close proximity to serious housing shortages is the Amazon forest. This is a heterogeneous, almost virgin, tropical forest with as many as 200 different species per acre. The trees are hardwoods of medium to high density and often have buttress roots. Their size, particularly to Eastern Canadian eyes, is gigantic. The trunks are claw with few knots and the wood is high quality. There are problems associated with the use of hardwoods for building. Cutting the trees by hand used to be a long and exhausting

process but with the chain saw this no longer presents a problem. The high density woods sink in water. To get them down river to the mills, rafts of lower density woods are built and the logs are floated on them with the highest density woods at the top of the pile.

Nails frequently just split hardwoods so bolts are used, and other jointing methods are being investigated. South America is an earthquake area and this eliminates the North American log cabin earniquate area and this chiminates the North American log calmitechnique because the joints have no absorptive qualities.

Prof. Keenan was impressed with the talent, dedication and determination of the researchers in South America. They want to cover in three years what has taken 30 years here.

Being able to tap the Canadian experience will doubtless help the South Americans achieve their goals. And they may get an unexpected benefit. Recent findings have east some doubt on traditional methods of calculating stress factors, the safe load-level of wood used in structures. These are now being reviewed and this fresh look at old assumptions could yield information useful to the South Americans.

Earhart Night. The club has in the past awarded two Amelia Earhart Fellowships to students at the Insti-tute for Aerospace Studies. He Management Studies delivered a lecture entitled "Energy and the Future" in the Royal Canadian Institute winter lecture series and repeated this address to second year Civil Engineering and other students taking the course in envir-onmental systems by invitation of the departmental chairman, Prof. G.W. Heinke. Prof. Glass attended the American Institute of Aeronautics and Astronautics 14th a tics and Astronautics 14th aerospace science meeting and 12th annual meeting: Aerospace '76, which in-cluded a special display, "Age of Space Transportation", in Wash-ington, D.C. While in Washington, he visited the National Bureau of Standards to discuss current re-search and development problems in

unable to attend last year while on sabbatical leave when he was elected Institute for History

aerodynamics and magnetohydro-dynamics. He also attended the

AIAA Fellows dinner. He had been

& Philosophy of Science

& Technology

Prof. BRUCE SINCLAIR attended the winter meeting of the American Society of Mechanical Engineers in Houston in December and was the principal speaker at the members' and students' luncheon, where he delivered the Roy V. Wright Lecture, Prof. Sinclair spoke on technical developments in nineteenth-century America. In Feb-ruary, he, attended the annual meeting of the American Association for e Advancement of Science in Boston where he presented a paper entitled "Americans Abroad: The Class of '37 Tours Europe", which described the effect of foreign travel the professionalization of U.S. science in the early nineteenth cen-

Institute for Environmental Studies

Prof P H IONES director of education at the Institute, convened a "think tank" at Massey College in February of scientists engaged in environmental studies. Members of the Institute attending included Dr. F. KENNETH HARE, Dr. HENRY REGIER, Dr. IAN BURTON, Dr. DONALD CHANT and TOM DAVEY.

Discussions covered a wide area from critical observations of particular scientific problems to an examination of the basis of environmental sciences. The relevance of universities and even science itself was questioned during the discussions. The federal government, in particular, was criticized for what was termed its low concern over science in general and environmental sciences in particular. A report of the proceedings is being compiled for publication.

The environmental and health effects of radioactive wastes were the subject of a seminar in March. Co-chairmen were Dr. JOHN R. BROWN, Department of Preventive Medicine and Biostatistics, and an associate of the Institute and Prof. DOUGLAS G. ANDREWS, Department of Chemical Engineer-

The following papers were presented: "Some Criteria for Action" and "Biological Perspectives", Prof. Andrews; "Genetics", Dr. DIANE W. COX, Research Institute, Hospital for Sick

Children and assistant professor in the Departments of Paediatrics and Medical Genetics; "Radon Problems in Port Hope", Dr. J. H. Aitken, chief of the division of health physics, Ontario Ministry of Health, "Regulatory Aspects of Waste Management", J.P. Didyk, Atomic Energy Control Board; "Some Legal Implications of Radio-active Materials Disposal", Ms. H. Mitchell, Environmental Law Association; and "Radioactive Disposal from an Energy, Mines and Resources Viewpoint", Fred. C. Boyd, Department of Energy, Mines and Resources, Ottawa.

Prof. KENNETH HARE has been elected a Fellow of the American Association for the Advancement of Science, A Fellow Advancement of Science. A Fellow is defined as "one who has produced a body of work on behalf of the advancement of science that is scientifically distinguished or

scientification austringuished of socially highly significant, or both."

Dr. Hare's citation read: "F. Kenneth Hare, for his research leadership in the geophysical sciences and his research concerning the philosophy of science and the climate of arctic areas."

Psychiatry

Prof. F.I.M. CRAIK has been appointed associate editor of the quarterly Journal of Experimental Psychology.



Lawrence Lynch graduated from College in 1932

St. Michael's has new Principal

Prof. Lawrence Lynch has been appointed Principal of St. Michael's College, the College's governing board, the Collegium, announced earlier this month.

Until now, the offices of president and principal have been combined, and have been held since 1958 by Rev. John M. Kelly. Father Kelly will continue as President and will have over all charge. Father Kelly will continue as resident and market of the College, especially graduate institutes and faculties. Prof. Lynch, the first layman to be named Principal, will be responsible for the undergraduate component of the College, including instruction and student affairs.

instruction and student affairs. Prof. Lynch's association with St. Michael's began when he enrolled as an undergraduate in 1932. He was Chairman of the College's Department of Philosophy from 1960-1975. Prof. Lynch, 60, has held numerous elective and appointed responsibilities throughout the University, and is perhaps best known as a co-chairman of the Commission on University Government (1968-69), whose report led to the establishment of the Governing Council. Hewas a member of the Senate for 12years, served on the President's Council from 1966-69an days for 18years a member of the Hart House House Committee, including six years a member of the Hart House House Committee, including six years as its chairman. In 1969-70, he was a member of the President's Committee on the Future of Hart House.

omininee of the Future of Hart house. Among his other responsibilities have been membership on the ouncil of the School of Graduate Studies and on the Council of the Faculty of Social Work, as well as lengthy experience with the Faculty Association as a member of the executive committee (1957-

Faculty Association as a member of me executive committee (1966), chairman of the policy committee (1995-62) and chairman of the university government committee (1960-62). Prof. Lynch's interests outside the University have included chairman, administrative committee, World University Service of cnairman, administrative committee, world University service of Canada (1949-52), chairman, Couchiching Conference (1957) and president, American Catholic Philosophical Association (1958). Prof. Lynch gained his Ph.D. from

A Licentiate in Medieval Studies from the Pontifical Institute of Mediaeval Studies. He taught at St. Michael's in 1940-41 and then served with U.S. Naval Intelligence in the Far East prior to rejoining the staff of the College in 1946 where, along with Prof. Marshall McLuhan, he was one of the few lay undergraduate instructors.

Ingenuity just one of tactics in energy conservation campaign

by Paul Carson

Hot water that isn't quite as hot or full-flowing, re-programming of elevators and more efficient use thermostats are all tactics rrently being utilized in the currently being utilized in the University's on-going campaign to promote energy conservation

Although users probably won't alize it, the temperature of domestic hot water (i.e. for use in washrooms) circulated through some large buildings on the St. George campus will be reduced to 120 from 160 degrees Fahrenheit. The resulting savings are part of a major assault on the spiraling increase in the University's heating bills. To date, the results are encouraging: despite the severe winter weather and the significant increase in rates, the consumption of BTUs for the current heating season indicates a two percent reduction from 1974-75 instead of the 12 percent increase originally

Use of basic foot power instead total reliance on elevators is also a source of important energy savings. In many large buildings, elevators will be programmed to certain floors, and in some cases not all the elevators will travel to the top floor or be "homed" to automatically return to a specific floor when not in use.

Thermostats can be both used and abused. For example, the arrival of warmer weather means that the suggested indoor temperature level of 68 degrees Fahrenheit could be lowered to about 64, thus saving some heating costs. Thermostats should be adjusted to no higher than 60 for evenings and weekends, and 55 if the area is to be vacated for a longer period. Un-needed light bulbs should be disconnected.

Thermostat regulators may have to be installed in many buildings to combat the actions of some University personnel who, it seems, mistakenly believe that a chilly room can be warmed up quickly by setting the thermostat to about 80 degrees. One particularly unfortunate incident occurred at the Drill Hall when, the thermostat having been set at far too high a level, the entire supply of fuel oil was consumed in of tuel oil was consumed in heating the empty hall over the course of a winter weekend; when students arrived for an examination the following Monday, they were faced with an environment even more austere

than usual. A special type of shower head which restricts the flow of water will be tested in the near future. If it lives up to expectations, it will be installed in all shower facilities, resulting in savings which should exceed \$30,000 per year.

The University hopes to achieve greater co-ordination between maintenance and design so that building renovations will incorporate energy saving features. One current problem is the presence in many buildings of excessive lighting and inadequate insulation.

Other measures reviewed by members of the Task Force on Energy Conservation include:

— reduced use of fume hoods

in selected laboratories; —cheaper paper for depart-mental letterhead and adoption of circulating forms so that a reply can be written on the same paper

as the original inquiry;
— more control of distilled and deionized water, plus further savings from re-plumbing where

- installation of storm windows

to cut heavy heating costs in some buildings;

- resisting the impulse to adopt interesting but expensive projects whose initial capital costs are likely to outweigh the long term

savings; — reduction of "wild heat" in pipes by adding extra insulation

One prime energy-gobbler whose proliferation is to be very sharply curtailed is the window unit air-conditioner, thought by many to be a symbol of status as well as of comfort. Few further installations will be permitted, and those that are will be scrutinized with the attention of a Scrooge.

Suggestions for additional methods of conserving energy can methods of conserving energy can be forwarded to any member of the task force: J. Burrell (Medical Sciences Building), 6029; Ian Burton (Sidney Smith Building), 3374 or 6409; G.M. Clark (Ramsay Wright), 3489 or 3519; D.G. Ivey (New, Physics), 2936; W.K. Lye (Physical Plant Director), 6328 or 2312; M. J. McCahill (Robarts Library), 5320; K.B. Nielsen (Lash Miller), 3565; and A.G. Rankin (Vice-President, Business Affairs) 8736 or 8515.

Gordon Lectures May 11, 12 and 13

Prof. Jean-Marie Lehn, Professor of Chemistry at the University of Strasbourg, will deliver the 1976 A.R. Gordon Distinguished Lec-ture Series on May 11, 12and 13. All three lectures will be given at 4.10 p.m. in 162 Lash Miller Chemical Laboratories. (See Events, page 8)

\$25 million campaign

Continued from Page 1

Both co-chairmen are graduates of the U of T — Mr. Balfour from Trinity College in 1931 and Mr. Twaits from Commerce and Finance in 1933. Among the many business leaders participating in the organization of the "Update" campaign are two executives with service on the Governing Council: Murray Koffler, President of Shop-pers Drug Mart, and William B. Harris, Chairman of Mercantile and General Re-Insurance of Canada.

William Daniel, President of Shell Oil of Canada, and Sydney Jackson, President of Manufac turers Life, are serving as co-chairmen of the campaign division soliciting funds from major corpo-rate donors. Peter Harris, of A.E. Ames and Company, Fred Eaton, of Eaton's of Canada, and H. Wayne Tanenbaum are other division chairmen.

Also serving on the manage

ment committee for the campaign are J. Page R. Wadsworth, Presi

dent, Canadian Imperial Bank of Commerce; Douglas Peacher, for mer President, Simpson-Sears and Harold Murphy, Q.C.

W.I.M. Turner, Chairman of the Board, Consolidated Bathurst Ltd., will serve as head of the "Update campaign in Montreal.

The faculty, administrative staff and students will be invited to contribute in the fall of 1976. At contribute in the fall of 1976. At the same time, alumni will be asked to make donations to "Update" through the Varsity Fund, under the chairmanship of Bob Moore, Vice-President of Stevenson and Kellogg Ltd. management consultants.

The appeal has as its target the of meeting the defined needs in as short a time as possible rather than obtaining a specific sum each year. It is hoped, however, that sufficient pledges for a three-year period will be obtained to permit the University proceed at an early date with high priority and urgently-needed

\$15 million earmarked for capital needs

Continued from Page 1

classroom and academic office

The "Update" goal for all three colleges is \$1,725,000.

Restoration of University College Originally constructed in 1856 and re-built after the tragic fire of

1890, University College's main building has been undergoing costly renovations since 1972. The costly renovations since 1972. The Ontario government has contri-buted \$5 million and the College alumni an additional \$750,000. Completion of the renovations will equire further donations totalling

New athletic facility

The School of Physical and which Education, Health Education, which has moved eight times since its founding 35 years ago, still occupies rented quarters, lacking both adequate laboratory space and convenient access to large multipurpose indoor facilities. Moreover, space on the St. George campus for general athletic and recreational activities is severely restricted. Hart House, the main facility for male students, can offer

little more than the original services available when it opened in 1919.

The capital cost of the nev athletic building, to be located adjacent to the Benson Building, has come from government and private sources. \$1 million still private sources. \$1 remains to be raised. million still

Campus as Campus Centre

An imaginative concept for combining increased leisure space with existing buildings on the westerly side of St. George St., the Campus as Campus Centre was deisgned in 1971 by students and the Faculty of Architecture and the Faculty of Architecture and has been ed-dorsed by the Toronto city council and several local community organizations

The goal of \$750,000 wil permit the closing and landscaping of sections of Willcocks and Huron streets, creation of new pathways, and the building of a median strip along St. George St. from the Ramsay Wright building to the south end of the Lash Miller building.

Many other capital needs

"Update" hopes to generate about \$2.5 million to remedy almost two dozen urgent needs on all three campuses, as selected by the University's Needs Commit-tee. Such needs include additional greenhouse space, a climatologi-cal station at Scarborough, a seismological observatory at Erindale, renovations to the almost 60-year-old furnishings and equipment of Hart House, and repair of the Convocation Hall organ built **Educational Development Projects**

Updating of curriculum and earch at the University goes on continuously to meet the needs of students and society. The Banting and Best Department of Medical Research is hampered by a shortage of funds for basic medical research — there is need for a public policy analysis project — and for a Faculty of Law study into social welfare and family law. The goal for these and almost three dozen projects of equal importance is \$5.75 million.

Improvement of Library Resources

The University's library collection, one of the largest on the continent, is a unique Canadian resource for scholarship and research, serving many other univer-sities. It requires strengthening in areas: current Canadian books and manuscripts, automating bibliographic information systems, audiovisual instructional programs, improving the Canadian labour history collection. The "Update" goal is \$750,000.

Student Aid: Fellowships, Scholarships and Bursaries

There are specific areas of need defined in the "Update" program for financial assistance to students. tor financial assistance to students. They cover graduate interdisciplinary studies, fellowships in industrial relations, general bursaries and support for pre- university students — all included in the sity students — all goal of \$1 million.

All these needs are considered to be top priority by the University and the campaign management committee.

1000 students offered \$1,250 Graduate Scholarships

Ontario Graduate Scholarships have been offered to 1,000 outstanding students intending to pursue full-time graduate studies at Ontario universities in 1976 -

77.
The scholarships reward academic excellence and are worth \$1,250 per term for a

maximum of \$3,750 over three consecutive terms. This year's scholarships have increased in dollar value by more than 10 percent over last year's, which had a maximum value of \$800 plus

Scholarship winners were selected on the basis of academic

merit, regardless of discipline. The board was chaired by Prof. D.C. board was chaired by Prof. D.C. Jordan of the University of Guelph, Other members of the board were Prof. G.B. Craig, U of T; Prof. M.E. Arthur, Lakehead; Prof. A.J. Baer, Prof. C.B. Hieatt, Western; Prof. J.T. Ryan, Carleton, and Prof. D.M. Winch, McMaster.

JOB OPENINGS

Below is a partial list of job openings at the University. Interested applicants should read the Promotional Opportunity postings on their staff bulletin boards, or telephone the personnel office for further information. The number in brackets following the name of the department in the list indicates the personnel officer responsible. Please call:

(1) Sylvia Holland, 978-6470; (2) Wendy Chin, 978-5468; (3) Manfred Wewers, 978-4834; (4) Ann Sarsfield, 978-2112; (5) David Christman, 978-

Clerk Typist II (\$6,480-7,620-8,760) English (1), Faculty of Music (2), Media Centre (5)

Clerk Typist III (\$7,130—8,390—9,650) Vice-President & Provost Office (1), Microbiology & Parasitology (4)

Secretary I (\$7,130—8,390—9,650)
Urban & Regional Planning (5), Applied Science & Engineering (5),
Physics (1), Chemistry (1), Dentistry (1), Scarborough College (2)

Secretary II (\$7,850—9,230—10,610)
Speech Pathology (4), Chemical Engineering (5), Division of Instructional Media Services (5)

Anatomy Technician I (\$7,850—9,230—10,610) Anatomy (1)

Laboratory Technician II (\$9,610—11,300—13,000) Physics (1), Dentistry (1), Pharmacology (1)

Programmer I (\$9,120-10,730-12,340) Medical Computing (3)

Programmer II (\$11,373-13,696)

earch Assistant (\$10,600-12,470-14,340) Sociology Department - Erindale College (2)

Dental Technician III (\$9,610-11,300-13,000) Dentistry (1)

Administrative Assistant 1 (\$11,210—13,190—15,170) Central Services (6)

Computer Operator II (\$9,610-11,300-13,000)

Library IV (\$16,850) Criminology (1)



Physiologist Dr. Bob Goode (in bathing suit) participates as a test subject in his research experiment studying the effects of sudden immersion into cold water.

Come on in, the water's cold!

How can you survive if your sailboat capsizes and suddenly plunges you into a chilly lake or if, while hunting, you break through thin ice into a frigid pond? The answers to these and other

The answers to these and other questions involving the lives of campers, sailors and hunters, and other people who may find themselves in this predicament, will be discussed by experts at a one-day Cold Water Symposium, to be held in the Medical Sciences. Building on Saturday, May 8, commencing at 9 a.m.

The symposium, sponsored by

the Royal Life Society Canada, in conjunction with the Department of Physiology and the Sports Medicine Section of the Ontario Medical Association, is designed for doctors, first aid officials, and

interested members of the public Conference co-ordinator is Dr Robert C. Goode, Professor of Physiology in the Faculty of Medicine and of Physical Education in the Faculty of Education. Dr. Goode has recently conducted research, supported by the Defence Research Board, which indicates that the first 90 to 120 seconds after sudden immersion in cold water are crucial to survival and therefore techniques must be developed to alleviate dramatic changes in respiration and muscle reaction.

The conference will include two special sessions for doctors and extensive information for those engaged in first aid programs. Registration will be from 8.30 a.m. in the Alumni Lounge (third floor), and the fee which includes

RESEARCH NEWS

NATO Advanced Study Institutes Program

The NATO Science Committee has announced its 1976 program of Advanced Study Institutes. A variety of institutes is scheduled in the areas of the life sciences, physics, mathematical and physical sci-ences, behavioural and social sciences and applied sciences.

Those interested in the program y obtain a complete list of the offerings from ORA. Application to attend must be made to the director of the Institute.

Application Deadlines

May 1 is the deadline date for receipt of applications for research support for Ontario Ministry of Health — fellowships, renewals and National Research Council senior industrial fellowships.

Applicants are reminded that applications should be forwarded to ORA at least ten working days prior to the agency deadline date.

Literature searching by computer

by Jana Prokop, Reference Librarian

Recently, at the Lockheed Missiles and Space Company Library, a comparison of manual literature searching and computer searching revealed that the traditional method took an average of 22 hours at a cost of \$250, whereas computer searching, which required just 45 minutes, cost a mere \$47.

These interesting statistics are an appropriate introduction to a discussion of the Consultation and Computer Searching Services pro-vided by the reference librarians at the Science and Medicine and John P. Robarts Libraries services which you are invited to

Three components of the serriree components of the ser-vice are: a librarian, trained in computer searching; a computer terminal; and telephone lines which connect the terminal to large computer centres in North America, of which the largest are QL in Kingston, Ontario; National Library of Medicine in Washings-ton, D.C.; System Development Corporation's ORBIT in Santa Monica, California; and Lock-heed's DIALOG in Palo Alto, large computer centres in North

Let's say you want to find out how much and what has been written on pollution in Lake Ontario. To do it manually could take you several hours you cannot spare. The computer can do it for you in about 20 minutes (the average searching time).

If you are interested come to either the Robarts or the Science and Medicine Reference desks and talk to a reference librarian. Together, you will compile a list of keywords which might appear in titles or abstracts of the articles on your subject. This is all you have to

do, but for the information specialist it's just the beginning. She has to call on her knowledge of the subject and her expertise in computer literature searching.

Out of over 60 data bases the librarian has to choose the most suitable one, and since computers with artificial intelligence are still far off, she has to prepare a "search logic" and a "search strategy". This relationships with each other according to Boolean logic before starting any meaningful conversation with the remote computers. This interaction with the computer consists of typing in keywords in a logical fashion, usage of com-mands, tactics, strategies and gimmicks, and understanding the peculiarities of all the systems. The computer replies by typing its findings (on the library's terminals at the speed of 30 characters per second, i.e. about normal reading speed) and produces a list of citations and abstracts on the input

The user pays only for the computer time. The prices vary from data base to data base, ranging from 25 cents to \$2,666 per minutes of machine time and are set by the companies which develop and maintain the networks. Consultation and the information specialist's time and expertise are offered free of charge as a

reference service.

Do you wish to know more?
Would you like the computer to do
your literature searching? Phone
the Science and Medicine Library Reference Desk for searches in the Sciences (978-8617) or the Robarts Library Reference Desk for queries in the Social Sciences (978-2279).

Next article will contain infor-mation on specific data bases.

PH D ORALS

Since it is sometimes necessary to change a date or time of an oral examination, please confirm the information given in these listings with the Ph.D. oral office, telephone 978-5258.

Monday, May 3

Joe Fris, Department of Educational Theory, "Profession-alization and Militancy Among Ontario Secondary School Teachers". Thesis supervisor: Prof. S.B. Lawton. Round Room, Massey College, 2 p.m.

Frank Saverio Prato, Department of Medical Biophysics, "The Development of Pulmonary Radiation Fibrosis in Man." Thesis supervisor: Prof. N. Asplin. Room 201, 65 St. George St., 10 a.m.

Monday, May 10

Tomoko Makabe, Department of Sociology, "Ethnic Group Iden-tity: Canadian-Born Japanese in

Metropolitan Toronto." Thesis supervisor: Prof. W.W. Isajiw. supervisor: Prof. W.W. Isajiw. Room 201, 65 St. George St., 10 a.m.

Linda Maria Gerber, Depart-ent of Sociology, "Minority ment of Sociology, "Minority Survival: Community Character-istics and Outmigration From Indian Communities Across Can-ada." Thesis supervisor: Prof. R. Breton. Room 201, 65 St. George St., 2 p.m.

Thursday, May 13

Peter Erb, Department of Medieval Studies, "The Use of Ruysbroeck, Taluer and Other Ruysbroeck, lauer and Other Major Medieval Spiritual Writers by Gottfried Arnold and His Radical Contemporaries." Thesis supervisor: Prof. E.E. Colledge. Room 201, 65 St. George St., 2 p.m.

Carillon soon to sound, resound

Muted for months while the work of restoration and enlargement was under way, the celebrated carillon in Soldier's Tower will ring out again over the St. George campus at a re-dedication ceremony on Friday, May 7, at 4 p.m.

To mark the occasion, three world famous carillonneurs will perform on the 51 bells, which put U of T's carillon among the seven instruments of their kind in Canada.

At the ceremony the Rev. William N. McKeachie, Chaplain of Hart House, will re-dedicate the carillon to the memory of alumni who gave their lives to their country, and Mrs. Harold S. Beddoe will present the gift to C. Malim Harding, Chairman of the Governing Council.

The first guest recital will be by Percival Price, internationally farmous authority on campanology, professor emeritus of campanology at University of Michigan, and former carillonneur of the Peace Tower in Ottawa and of Metropolitan United Church, Joronto. The second recitalist will be Milford Myhre of Mountain Lake Sanctuary, Florida, and carillonneur of the Bok Singing Tower at Lake Wales, Florida. The finale will be performed by Emilien Allard, Dominion Carillonneur, Ottawa.

A trust fund has been established for donations towards a recital fund.

EVENTS

FRIDAY 30

The Crucible by Arthur Miller. Presented by University of Toronto Schools, 371 Bloor St. W. Performances April 30 and May 1 at 8 p.m. Tickets \$2.50

SATURDAY 1

The Trip of a Lifetime—Faculty of Medicine Open House. Exhibits will cover human growth and development from conception to the control of the con old age. Students and faculty will be on hand to answer questions. Displays on embryology, child-hood learning, physical fitness, environmental health hazards and care of the elderly. Medical Sciences Building. 9 a.m. to 9 p.m.

MONDAY 3

Gauge Fields, Magnetic Mono-poles and Fibre Bundles (First in 1976 H.L. Welsh Lectures in Physics) Dr. C.N. Yang, Professor of Physics, State University of New York at Stony Brook. Auditorium, Medical Sciences Building, 2.10

Mystical Islam of the 18th Century (Lecture) Prof. Annemarie Schimmel, Harvard University. Upper Library, Massey College. 11 a.m. Prof Schimmel will also discuss her recent publication The Mystical
Dimensions of Islam in the Islamic Studies Department lounge, 14098 Robarts Library at 3 p.m. (South Asian Studies Committee ISP)

TUESDAY 4

Laser Induced Fusion (Second in 1976 H.L. Welsh Lectures in Physics) Dr. R. Hofstadter, Max H Stein Professor of Physics, Stanford University. Auditorium, Medical Sciences Building. 1.45 p.m.

75 Years of Equilibrium Statistical Mechanics (Third in 1976 H.L. Welsh Lectures in Physics) Prof. C.N. Yang, State University of New York at Stony Brook. Auditorium, Medical Sciences Building, 3.45

The Slate Islands Meteor Crater (Seminar) Prof. Henry Halls, Erindale College. David Dunlap Ob-servatory. 4 p.m.

WEDNESDAY 5

The Validity of Quantum Electro dynamics (Fourth in 1976 H.L. Welsh Lectures in Physics) Prof. R. Hofstadter, Stanford University. Auditorium, Medical Sciences Building, 1,45 p.m.

The Seronegative Spondyloarthropathies (Wallace Graham Mem-orial Lecture) Dr. Rodney Blue-

stone, chief, Rheumatology Sec-tion, Los Angeles Veterans' Adtion, Los Angeles Veterans' Ad-ministration Hospital and Pro-fessor of Medicine, University of California at Los Angeles. Lecture theatre, Mt. Sinai Hospital. 5 p.m. (See story this page.)

Speculation and Insight (Last in 1976 H.L. Welsh Lectures in Physics) Prof. C.N. Yang, State University of New York at Stony Brook, Auditorium, Medical Sciences Building, 3.45 p.m.

Information and Immunity Mech-Information and Immunity Mechanisms of Cell Individuality (Seminar) Dr. Kenneth L. Melmon, Professor of Medicine and Pharmacology and chief, Division of Clinical Pharmacology, University of California Medical Center, San Francisco. 4279 Medical Sciences Building, 3 p.m.

Spring Tea and Fashion Show University Settlement Women's Auxiliary. 93 Highland Ave. 1.30 — 4.30 p.m. Proceeds to Settlement camping program.

THURSDAY 6

Reinforced Masonry for a Seismic Area (Lecture) Prof. J. C. Scrivener, Department of Civil Engineering, University of Calgary. braith Building. 10 a.m. 119 Gal-

Gallie Day 1976. Auditorium, Mount Sinai Hospital, 600 Uni-versity Ave. 8 a.m. — 5 p.m. (See story this page)

Industrial Research: What It Is and How It Is Managed (Annual Gordon N. Patterson Lecture) Dr. Domenic Bitondo, director and general manager, Bendix Research Laboratories. Main lecture hall, Institute for Aerospace Studies. 2 p.m. (See story this page)

TUESDAY 11

Stereoelectronic Effects and Properties of Tetrahedral Species (First in series of three, A.R. Gordon Distinguished Lecture Series) Prof. Jean-Marie Lehn, Institut de Chimie, University of Strasbourg. 162 Lash Miller Chemical Laboratories. 4.10 p.m.

Cassiopeia A, The Invisible Supernova (Seminar) Dr. K.W. Kamper, Department of Astronomy. David Dunlap Observatory. 4 p.m.

WEDNESDAY 12

Cryptates in Chemistry: the chemistry of macropolycyclic cation inclusion complexes Gordon Distinguished Lecture

Series) Prof. Jean-Marie Lehn, Institut de Chimie, University of Strasbourg. 162 Lash Miller Chemical Laboratories. 4.10 p.m.

THURSDAY 13

Transport Processes in Organic Chemistry (Last in series of three A.R. Gordon Distinguished Lecture Series) Prof. Jean-Marie Lehn, Institut de Chimie, University of Strasbourg. 162 Lash Miller Chemical Laboratories. 4.10

The Immunological Destruction of Red Cells (Lecture) Dr. Wendell F. Rosse, Professor of Medicine, Duke University Medical Center. The lecture will be illustrated with a time-lapse, phase-contrast film made in the laboratory of Dr. M. Bessis, Paris. Main auditorium, Toronto General Hospital. 7.30

Pots of Gold in China (Sixth in rots of Gold in China (SXXII in Series of eight lectures introducing Gold for the Gods exhibition) Patricia Proctor, curatorial assistant, Far. Eastern Department, ROM. Lecture room, McLaughlin Planetarium, 8 p.m.

Health care. . . How to avoid it! (First in series of three lectures on Controversies in Health Care.) Staff physicians at Sunnybrook Hospital will discuss topics including accidents, alcohol and the liver, lung cancer, coronary artery disease and neuroses. Sunnybrook Medical Centre. 8

FRIDAY 14

Immunologic Responses to Strept. mutans; in vivo Effects of Secretory Antibodies and their Possible Role in Caries Vaccination (Lecture) Dr. R.J. Genco, Department of Oral Biology, School of Dentistry, State University of New York at Buffalo. 308 Faculty of Dentistry. 11 a.m. (Dentistry and SGS)

SATURDAY 15

Labour Relations Seminar for all U of T library staff. Speakers: Prof. R. Ray, Faculty of Law; Donald Houck, Currie Coopers and Lybrand Ltd. and P. Robb, formerly Toronto Public Library. 4049 Ro-barts Library. 9.15 a.m. — 4.30 p.m. barts Library. 9.15 a.m. — 4.30 p.m. Registration limited to first 30 applicants. Fee \$5 LAUT members, \$6 non-LAUT members. Registration contact Ruta Caune, 884-2112,-deadline May 7.

SLINDAY 16

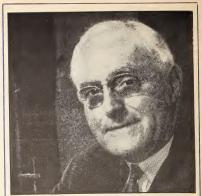
bass and Patricia Krueger, piano (Donald McMurrich Memorial Concert) Walter Hall, Edward Johnson Building, 8.30 p.m.

there will be preview screenings of NanciCarole Monohan, double Alumni Advisory Conference

The Librarians' Association of the University is holding a one-day workshop on Labour Relations on

May 15. There will be sessions on the Ontario Labour Code, the negotiation process, and tech-niques of administering agree-ments. (See "Events", page 8)

As a follow-up to the workshop,



Prof. W. E. Gallie developed world-renowned survey course

Annual Gallie Day on May 7

On May 7, surgeons who have been trained in the University of

On May 7, surgeons who have been trained in the University of Toronto's world-renowned Sallie Course in surgery will gather for a one-day scientific meeting. The papers of the third annual Gallie Day will be presented in Mount Sinal Hospital auditorium. Dr. Donald R. Wilson, the current professor and chairman of the Department of Surgery, inaugurated the tradition of Gallie Day which pays tribute to the late Prof. W.E. Gallie who occupied the Chair of Surgery from 1929-1947.

Before Dr. Gallie developed the first fully defined training program in North America, the neophyte surgeon tended to study by the preceptorship method, moving from centre to centre, from teacher to leacher. "The new system was readily accepted in North America, and has become a nototyne in many other parts of the America and has become a prototype in many other parts of the world," says Prof. Wilson, Surgeon-in-Chief at the Toronto world," says Prof Western Hospital.

In the first year of the 45-year-old program, only three surgeons egan their training in Toronto. Now there are 150 training in the

began their training in Toronto. Now there are 150 training in the Gallie program at any given time.

Gallie Day has come to be an academic exchange between those who taught and those who learned — many of whom today hold teaching positions in various parts of the world. The day is intended to strengthen ties with the University, renew academic and personal bonds, as well as to honour Dr. Gallie's pioneer work in creating a formal academic training for young surgeons.

Gallie Day has come to be the academic highlight of the Department of Surgery. This year for the first time the Gallie-Betman Award will be given to the resident who has prepared the best research paper during training. As well, there will be a paper on post graduate surgical education in Canada, by Frot. F.P. Dewar of the University's Division of Orthopedic Surgery; and another, on post graduate surgical education in Striain, by Frot, J.I.P. James of the Department of Orthopedic Surgery in the University of Edinburgh. Edinburgh.

Librarians and labour relations

the Media Centre videotape pro-

duction, Grievance Arbitration

Process, on May 17, 18 and 19 from

12 noon to 2 p.m. in the Faculty of

Library Science lecture theatre.
The four-part program contains sections on Confrontation (17

minutes); Preparation (20 min utes); Hearing (50 minutes); and Argument (24 minutes).

The President, Officers and Directors of the U.T.A.A. cordially invite members of the University community to the Alumni Advisory Conference. The Conference is an annual event designed to bring together representatives of the various estates of the University. Its purpose is to explore issues vital to the life of the

University. The purpose is to explore assues vital to the med the University.

The topic this year is: "Academic Excellence: Its Price and Yalue". The first session will be held on Friday, May 7 at the Town Hall Theatre, Innis College at 8 p.m. with H. Ian Macdonald, President of York University as the keynote speaker. The presentation of the Moss Scholarships will precede M. Macdonald's talk, which will be followed by a special U.T.A.A. presentation to Innis College.

The second session will be held on Saturday, May 8 at the New Academic Building, Victoria College at 9.15 a.m. Exploration of the them will be continued at this time by appeal consisting of: Dr. Ef. Sheffield, Professor of Higher Education and Chairman of the Higher Education Group; Mr. B.A. Wilson, Assistant Deputy Minister, Ontario Ministry of Colleges and Universities; and Mrs. P. Fleury, Vice-Chairman, Academic Alfairs Committe, Governing Council.

The conference will be followed by the U.T.A.A. Annual Meeting at noon, which in turn will be followed by a reception and luncheon at Burwash Hall.

Those wishing to attend any of these sessions are asked to contact Alumni House. 978-8990.

Dr R Bluestone to visit Mount Sinai

Dr. Rodney Bluestone, Professor of Medicine at the University of California at Los Angeles, will visit Mount Sinai Hospital, May 4 and 5, at the invitation of the University's Rheumatic Disease Unit. Dr. Bluestone will deliver the annual Wallace Graham Memorial Lec-ture entitled "The Seronegative Spondyloarthropathies" on May 5 at 5 p.m. He will also take part in Rheumatology Rounds on May 4 at 4 p.m. and in Medical Rounds on May 5 at 9 a.m. All events will take place in the hospital auditorium.

Dr. Wallace Graham formed the

arthritis service at Sunnybrook Hospital and his efforts led to the formation there of the first rheu-matic disease unit in Canada. Dr. Graham was also one of those responsible for the formation of the Canadian Arthritis and Rheumatism Society. Dr. Bluestone has written exten-

sively on the physiology of cells in joint lining and on newer forms of therapy in rheumatoid arthritis and gout. His investigations in the field of genetic markers have opened up new avenues of

research in the epidemiology and pathogenesis of rheumatic diseases.

Dr. Bluestone will discuss "Pathogenesis of the Gouty Kidney" at Rheumatology Rounds and "Al-tered Immunity in Rheumatoid Arthritis" at Medical Rounds. All interested members of the Faculty of Medicine are invited to attend.

Robarts Library cost \$41,381,493 Official completed cost of the

Robarts Library is \$41,381,493, according to a report tabled at the April 21 meeting of the Business Affairs Committee

The library was approved in 1968 at a total project cost of more than

\$42.6 million, including \$1,000,000 private benefaction which did not materialize. Savings, primarily achieved from the original inflated cost estimates for custom-made furniture, have produced the lower figure